CIA INTERNAL USE ONLY

7 September 1961

MEMORANDUM FOR : Chief, General Purchase Section, PD/OL

SUBJECT : Purchase Order Rental 8 (62-R-1-L)

It is requested that a Letter of Intent be issued to the International Business Machines Corporation, Attention: Mr. Donald E. Van Gleson, requesting that the items listed below be made available to this Agency on a rental basis:

1. SORTER   MDL 1   TYPE 083   1 ea $110.00

   Modification to feed MIL-D Aperture Cards   20.00 $130.00
   As per IE's RFQ #F 93720

2. INTERPRETER   MDL 1   TYPE 548-11   1 ea $100.00

   Modification to feed MIL-D Aperture Cards   100.00 $200.00
   As per IE's RFQ #F 93718

3. COLLATOR   MDL 2   TYPE 087-11   1 ea $215.00

   Modification to feed MIL-D Aperture Cards   185.00
   As per IE's RFQ #F 93719

These machines will be used to process photo aperture cards produced by the Walnut System. With the change to the Military D aperture card for this system, it is necessary to have new machines with different modification to handle this Military D card. Items 1 and 2 should be delivered no later than 15 November, and Item 3 no later than 15 January 1962.

It is requested that our current DO reading be specified to IBM and specifically applied to these machines.

Upon delivery and installation subject purchase order will be awarded accordingly. Please refer to IBM Customer No. 92340-15.

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It would be appreciated if this Letter of Intent could be expedited through your office and if you would furnish us a copy of your letter.

25X1A

Assistant Executive Officer
DD/P

25X1A

Approved: [redacted] (Telecon Approval)
DK/CIA/Aug 3/1961

7 SEP 1961

cc: C/RED
     L/SIA/ADPG/DDS
File: IBM
      Chrono

DDP/MMU/DHW;lbp

CIA INTERNAL USE ONLY

25 August 1961

MEMORANDUM FOR THE RECORD

SUBJECT :   Change In Core Storage Capacity On The 1410 System

1.   The 1410 System now on order for use in RID has a main frame with 10,000 positions of core storage.

2.   I have been informed by ██████ personnel and by Mr. John   **25X1A**
B. McKeehan, IBM systems Representative, that they feel this amount of core storage will not provide the best system for RID for the following reasons:

     a.   The full auto-coder program used by the 1410 requires a minimum of 20K core storage (the auto-coder program is a program developed by IBM which permits the programers to write in symbolic language and use many short cuts. This symbolic language is then converted into the standard machine language normally recognized by the 1410.)

     b.   Most of the applied programs furnished by IBM for use on the 1410 require 20K storage.

     c.   The standard input/output programs for tape and disk files on the 1410 use 11K without the detailed program itself.

     d.   Due to the limitations of the 10K the search program already written for the Locator on the 1410 requires that two separate steps be used to complete the search. Hits must be written out on tape and then reprocessed for additional information needed.

     e.   It is felt by Mr. McKeehan that the index simulation will certainly require more than the 10K.

3.   The additional 10K storage recommended will increase the basic cost of the central processor from $3,800 to $4,550 or $750 per month.

4.   In light of the program load on the IBM programers, and of foreseeable program effort necessary to accomplish our aims, it appears to me that we should make every effort to use as many "packaged" programs as possible and not require our programers to write specialized versions of available standard programs.

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date   6 DEC 1973

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5. Use of the auto-coder program requires that sterilized data be constituted for assembly outside the Agency on a 20K machine. This is being done on the initial Locator program that will be placed on the 1410 as soon as it arrives. This should not be necessary on subsequent programs -- it is a time consuming operation and almost impossible in selecting data of this type to represent all of the problems that the programer will encounter.

6. It is, therefore, recommended that the specifications for this system be changed to a 20K machine. This should be done as soon as possible so that the increased capacity will be delivered with this system.

█████████████████████████████   25X1A
                                  25X1A
                      DDP/MMU

cc: C/RID
     C/CIA/ADPS/DDS

File:
  IBM File
  MMU Chrono

DDP/MMU/DHW;ibp